2/7/02

milliseconds

[Same as lab-based CReSS] (Volume, Duration, Count, IPI, Peak Flow, Puff-puff Interval, Depth, Inhalation)

mL Area under curve

[NEW: Avg Flow
Time of Peak
Time to First Puff
Time to removal
Temperature]

Latency

Time from last puff to removal from mouthpiece

1. Smoking Topography

1.1. Compensatory Behavior

1.2. Other Behavioral Changes

2. The CReSSmicro Device

2.1. Overview

2.1.1. Display, buttons, LED, buzzer
Will be used for ?warn, etc. in future. Buzzer works.

2.1.2. Mouthpiece and bracket (removable for cleaning)

2.1.3. Data port and cable (Serial Cable)

2.1.4. Battery compartment.

2.2. Features of Interest

2.2.1. No "on/off" switch

2.2.2. Storage capacity

2.2.3. Battery life

2.2.4. Date and time

2.2.5. Self-zeroing at every cigarette-in

2.3. Participant Instructions

2.3.1. Holding the device properly

2.3.2. Inserting a cigarette properly

2.3.3. Display, buttons, LED not used at this time

2.3.4. One beep at Cig-In, Three beeps at Cig-Out (if not heard, note time & date)

2.3.5. Do not drop or get the unit wet

▷ Remove cig before putting it out

▷ Measuring the "lighting puff"

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Source: https://www.industrydocuments.ucsf.edu/docs/fslj0001

2.3.6. Do not share the device with others (non-lab studies)

2.3.7. Do not open unit or battery compartment

2.3.8. Do not zap with static electricity

2.4. Staff Instructions

2.4.1. Replacing the battery

2.4.2. Do not leave serial cable installed longer than necessary (Audible confirmation) — draws power from battery

2.4.3. Remove battery if not in active use

2.4.4. Cleaning the mouthpiece (alcohol or bleach) overnight 1:90 → for 30 min.

2.4.5. Assembly and disassembly

3. The CReSShost Software

3.1. Overview

3.1.1. Requires an open 9-pin serial port for CReSSmicro

3.1.2. "Tree view" of devices to choose from

3.2. Communications

3.2.1. Audible feedback for cable in/out

3.2.2. Assigning a serial port

3.2.3. Authentication (organization ID) - will be issued by [illegible]

3.2.4. Device must have battery installed for communications

3.3. The Finder

3.3.1. Locate a connected device

3.3.2. Serial number used for tracking

3.4. The Device Dashboard

Source: https://www.industrydocuments.ucsf.edu/docs/fslj0001

3.4.1. Preparing a device for use

3.4.1.1. Synchronizing the date and time (Edit Sync Section)

3.4.1.2. Test puffs (printing) - these are never stored on device (Syringe + tube attached to temp)

3.4.1.3. Checking battery level

3.4.2. Downloading measures

3.4.2.1. Selecting Participant ID, Staff ID, and Study ID

3.4.2.2. Selecting the download file/folder (based on Participant ID)

3.4.2.3. Data storage and management (new data are always appended)

3.4.2.4. Hierarchical view of the measures (printing) (only when displayed)

3.4.2.5. Erasing measures from the device (permanent)

3.4.2.6. A look at the measures

3.4.2.6.1. Cigarette-level data

3.4.2.6.2. Puff-level data (a word about IPI on Puff #1)

▷ Back up your data!

▷ Text file versus Excel file (don't mix them!)

- Be sure to Cg default extension (.txt)
- when saving Excel spreadsheet

Puff clean up:

Source: https://www.industrydocuments.ucsf.edu/docs/fslj0001

3.4.3. Configuration settings

3.4.3.1. Cigarette abandon timer

3.4.3.2. PuffCleanUp (data cleaning)

3.5. Upgrading the Device Software

3.5.1. Emailed or downloadable upgrades

3.5.2. Upgraded via data cable

3.6. The List Manager

3.6.1. Manage various lists maintained by the software

3.6.2. Can delete devices but not add new ones

3.6.3. Printing the lists for record keeping

3.6.4. Does not affect data already downloaded

4. Troubleshooting

4.1. Communications

4.1.1. Make sure data cable seated well in device

4.2. Device errors

4.2.1. Rapid buzzer blasts, error message on LCD (for 20 seconds)

4.2.2. Call us

4.3. Software (PC) errors

4.3.1. Fatal error report on printer

4.3.2. Call us

Source: https://www.industrydocuments.ucsf.edu/docs/fslj0001